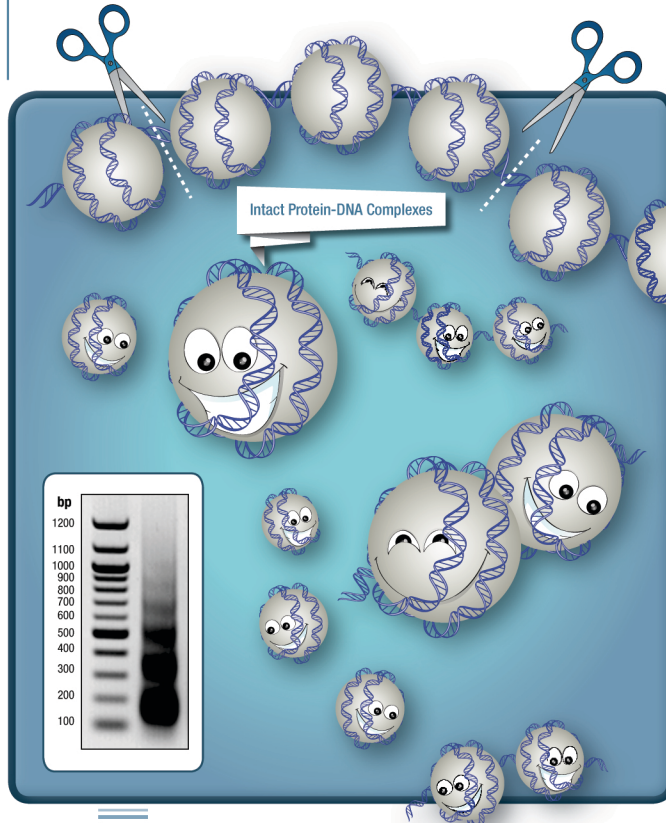


CHROMATIN INTEGRITY MATTERS

Successful chromatin immunoprecipitation experiments depend on both chromatin integrity and antibody quality.

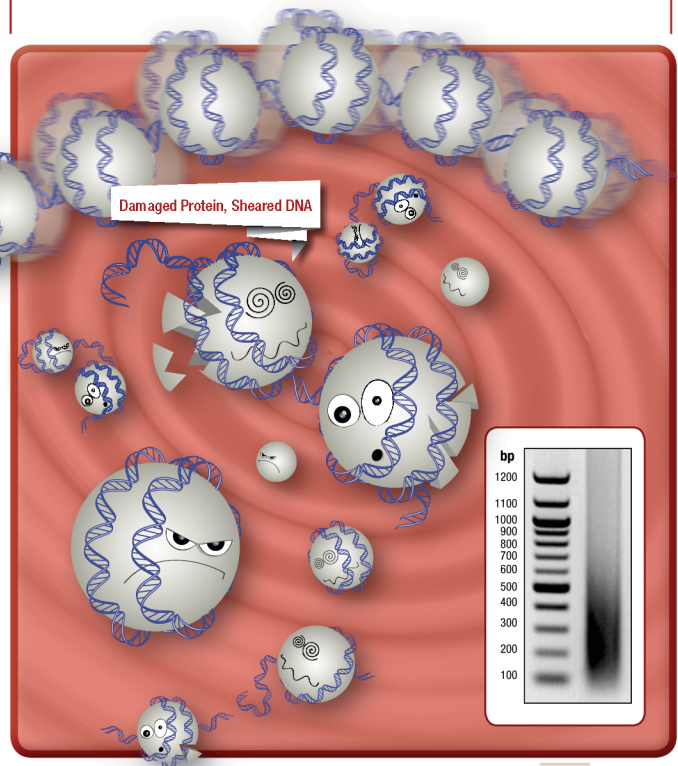
Enzymatic Digestion

Enzymatic digestion uses micrococcal nuclease to gently fragment chromatin, which preserves protein-DNA integrity.

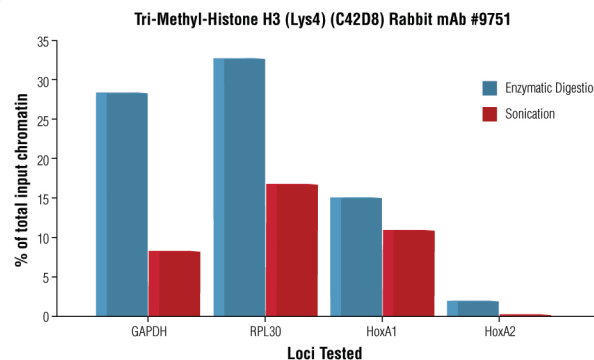
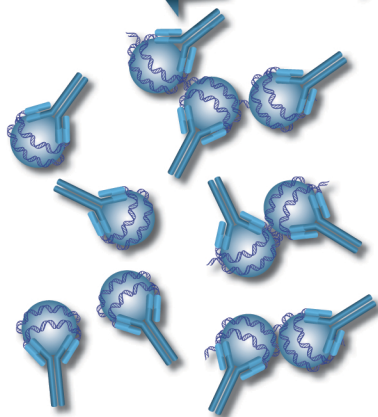


Sonication

Sonication uses acoustic energy to mechanically shear chromatin, which can damage both DNA and antibody epitopes.

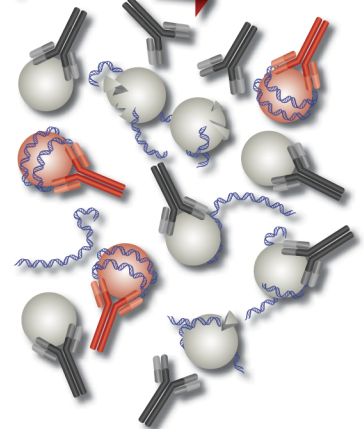


High Signal: Low Noise



Enzyme-digested and sonicated chromatin were analyzed using Chromatin IP. The enzyme-digested chromatin showed higher enrichment at all tested loci compared to sonicated chromatin. The enriched DNA was quantified by qPCR. The amount of immunoprecipitated DNA in each sample is presented as a percent of the total input chromatin.

Low Signal: High Noise



www.cellsignal.com/chromatinmatters